## PATENT COOPERATION TREATY

To:	EARCHING AUTHORITY	PCT
To: BIANCHETTI BRACCO MINOJA S.R.L. Attn. Banfi, Paolo Via Rossini, 8 I-20122 Milano ITALY RECEIVED ON		NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT A THE WRITTEN OPINION OF THE INTERNAT SEARCHING AUTHORITY, OR THE DECLAR
	3 0 SET. 2004	(PCT Rule 44.1)
BIA	NCHETTI - BRACCO - MINOJA sri	Date of mailing (day/month/year) 28/09/2004
Applicant's or agent's file reference SCB 844 PCT	е	FOR FURTHER ACTION See paragraphs 1 and
International application No. PCT/EP2004/002185		International filing date (day/month/year) 04/03/2004
ISTITUTO NAZIONALE E	PER LO STUDIO E LA CU	JRA DEI
Filing of amendments at The applicant is entitled,	ablished and are transmitted herew and statement under Article 19: , if he so wishes, to amend the clai , it for filing such amendments is no I Search Report; however, for more	ms of the International Application (see Rule 46): ormally 2 months from the date of transmittal of the

(See notes on accompanying shee

Joannes Vergoosen

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

()

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

#### **INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19**

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

# PATENT COOPERATION TREATY

PCT

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	Applicant's or agent's file reference	FOR FURTHER ACTION as well	see Form PCT/ISA/220 I as, where applicable, item 5 below.
	SCB 844 PCT International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
	PCT/EP2004/002185	04/03/2004	07/03/2003
	Applicant		
	ISTITUTO NAZIONALE PER LO	STUDIO E LA CURA DEI	
	This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Autl nsmitted to the International Bureau.	nority and is transmitted to the applicant
)	This International Search Report consists  It is also accompanied by	of a total of 8 sheets.  a copy of each prior art document cited in this	report.
	Basis of the report     a. With regard to the language, the language in which it was filed, unli	international search was carried out on the ba ess otherwise indicated under this item.	sis of the international application in the
	The international this Authority (Ru		lation of the international application furnished t
	b. X With regard to any nucleo	otide and/or amino acid sequence disclosed	in the international application, see Box No. I.
	2. Certain claims were fou	nd unsearchable (See Box II).	
	3. X Unity of invention is lac	king (see Box III).	
	4. With regard to the <b>title</b> ,	heritand by the applicant	
	the text is approved as su  X the text has been establis	thed by this Authority to read as follows:	
		INASE ASSAY, REAGENTS AND CO	OMPOSITIONS THEREOF
)			
	·		
	·		
	5. With regard to the abstract,		
		ubmitted by the applicant. shed, according to Rule 38.2(b), by this Author	ity as it appears in Box No. IV. The applicant
	may, within one month from	om the date of mailing of this international sea	rch report, submit comments to this Authority.
	6. With regards to the drawings,		•
		oublished with the abstract is Figure No. 2	
	as suggested by  X as selected by th	the applicant.  is Authority, because the applicant failed to su	agest a figure.
	<u> </u>	is Authority, because this figure better charact	
		be published with the abstract.	
	· ·		

	INTERNATIONAL-SEARCH-REPORT	International application No.  PCT/EP2004/002185
Box No. I	Nucleotide and/or amino acid sequence(s) (Continuation of it	tem 1.b of the first sheet)
1. With	regard to any nucleotide and/or amino acid sequence disclosed in the internat ntion, the international search was carried out on the basis of:	ional application and necessary to the claime
a.	type of material  X a sequence listing table(s) related to the sequence listing	·
b.	format of material in written format  X in computer readable form	
c.	time of filing/furnishing  X contained in the international application as filed  filed together with the international application in computer readable for furnished subsequently to this Authority for the purpose of search	orm
2.	In addition, in the case that more than one version or copy of a sequence list or furnished, the required statements that the information in the subsequent application as filed or does not go beyond the application as filed, as approximately	it or additional copies is identical to that in the
3. Add	itional comments:	
	·	

International application No. PCT/EP2004/002185

Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This Inte	rnational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. X	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
,	1-17, 19, 20
Remari	The additional search fees were accompanied by the applicant's protest
	No protest accompanied the payment of additional search fees.

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-17,19,20

ALK assay using a peptide of SEQ ID N. 1 or SEQ ID N. 2 and said peptides and related kits.

2. claim: 18

.:-

Use of compounds of formula (I) for the preparation of a medicament for the treatment of ALK-related tumors.

International Application No PCT/EP2004/002185

A CLASSIFICATION OF SUBJECT MATTER I PC 7 C12Q1/48 C07K14/72 G01N33/74 A61K31/00

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols) I PC  $\,7\,$  C120 C07K  $\,$  A61K

IPC / CIZQ CO/K AOIK

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, BIOSIS, CHEM ABS Data, EMBASE, MEDLINE, Sequence Search

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
А	DATABASE WPI Section Ch, Week 199325 Derwent Publications Ltd., London, GB; Class A96, AN 1993-201126 XP002249142 & JP 05 126833 A (TOSOH CORP) 21 May 1993 (1993-05-21) abstract	1-17,19, 20
Α	US 5 770 421 A (LOOK A THOMAS ET AL) 23 June 1998 (1998-06-23) the whole document	1-17,19, 20
Α	WO 95/14930 A (SADICK MICHAEL DANIEL ;GENENTECH INC (US); GODOWSKI PAUL J (US); M) 1 June 1995 (1995-06-01) the whole document	1-17,19, 20

X Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
"Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier document but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
1 July 2004	2 8 SEP 2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer  Gunster, M

2

C.(C	ontinuation)_DOCUMENTS CONSIDERED TO BE RELEVANT	
Cate	gory ° Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 98/49317 A (PELES ELIOR ;ONRUST SUSAN (NZ); CLARY DOUGLAS (US); HUI TERANCE H) 5 November 1998 (1998-11-05) the whole document	1-17,19, 20
A	WO 95/02187 A (BARKER KAREN TRACEY ;CROMPTON MARK ROGER (GB); MARTINDALE JANE ELI) 19 January 1995 (1995-01-19) the whole document	1-17,19, 20
) A	SADICK M D ET AL: "Kinase receptor activation (KIRA): A rapid and accurate alternative to end-point bioassays" JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS 1999 NETHERLANDS, vol. 19, no. 6, 1999, pages 883-891, XP002249139 ISSN: 0731-7085 the whole document	1-17,19, 20
A	TURTURRO FRANCESCO ET AL: "Model of inhibition of the NPM-ALK kinase activity by herbimycin A." CLINICAL CANCER RESEARCH: AN OFFICIAL JOURNAL OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH. UNITED STATES JAN 2002, vol. 8, no. 1, January 2002 (2002-01), pages 240-245, XP002249140 ISSN: 1078-0432 the whole document	1-17,19, 20
A	MORRIS STEPHAN W ET AL: "ALK, the chromosome 2 gene locus altered by the t(2;5) in non-Hodgkin's lymphoma, encodes a novel neural receptor tyrosine kinase that is highly related to leukocyte tyrosine kinase (LTK)."  ONCOGENE, vol. 14, no. 18, 1997, pages 2175-2188, XP002249141  ISSN: 0950-9232 the whole document	1-17,19,

2

Information on patent family members

International Application No PCT/EP2004/002185

					101/21	
<u>۔</u> ۔	Patent document cited in search report	1 A	Publication date		Patent-family ————————————————————————————————————	Publication date
	JP 5126833	Α	21-05-1993	NONE		
	US 5770421	A	23-06-1998	US US US AU AU CA DE EP JP WO	5529925 A 6174674 B1 6451997 B1 2001021505 A1 679833 B2 1511695 A 2177957 A1 69433665 D1 0731806 A1 9512161 T 9515331 A1	25-06-1996 16-01-2001 17-09-2002 13-09-2001 10-07-1997 19-06-1995 08-06-1995 06-05-2004 18-09-1996 09-12-1997 08-06-1995
	WO 9514930	A	01-06-1995	UATUUUAAAACCDDDEEEGHJJJWWUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	6001621 A 163231 T 697142 B2 1180095 A 698975 B2 1210895 A 2175892 A1 2175893 A1 69408541 D1 69408541 T2 730740 T3 0730646 A1 0730740 A1 2116066 T3 3026430 T3 1008440 A1 9506250 T 3442784 B2 9505889 T 9514776 A1 9514930 A1 2002147325 A1 2003204072 A1 5766863 A 6025145 A 6287784 B1 5914237 A 5891650 A 6096527 A 5709858 A 6087144 A 2002137113 A1	14-12-1999 15-02-1998 01-10-1998 13-06-1995 12-11-1998 13-06-1995 01-06-1995 01-06-1995 19-03-1998 06-08-1998 28-09-1998 11-09-1996 01-07-1998 30-06-1998 07-05-1999 24-06-1997 02-09-2003 10-06-1997 01-06-1995 01-06-1995 01-06-1995 10-10-2002 30-10-2003 16-06-1998 15-02-2000 11-09-2001 22-06-1999 06-04-1999 06-04-1999 01-08-2000 20-01-1998 11-07-2000 26-09-2002
	WO 9849317	A	05-11-1998	AU CA EP JP US WO US US US	7260098 A 2288221 A1 0979288 A2 2002513289 T 2003073143 A1 9849317 A2 6228641 B1 2002119501 A1 2003095970 A1 2003008347 A1 6342593 B1	24-11-1998 05-11-1998 16-02-2000 08-05-2002 17-04-2003 05-11-1998 08-05-2001 29-08-2002 22-05-2003 09-01-2003 29-01-2002

 $\overline{(}$ 

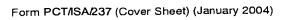
Information on patent family members

International Application No PCT/EP2004/002185

with	Patent document cited in search report		Publication date	AND AND ADDRESS OF THE WAY	Patent-family member(s)		Publication————————————————————————————————————
	WO 9849317	Α		US US	6388063 2004087783		14-05-2002 06-05-2004
-	W0 9502187	Α	19-01-1995	AU WO ZA	7081094 9502187 9404983	A1	06-02-1995 19-01-1995 08-01-1996

# **PATENT COOPERATION TREATY**

To:	RNATIONAL SEAF	<u> </u>			PCT
	see form PCT/ISA/220			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHO (PCT Rule 43 <i>bis</i> .1)	
				Date of mailing (day/month/year) see	e form PCT/ISA/210 (second sheet)
	icant's or agent's file form PCT/ISA/22			FOR FURTHER A	
	national application N T/EP2004/002185		International filing date (c 04.03.2004	lay/month/year)	Priority date (day/month/year) 07.03.2003
Inter C12	national Patent Class 2Q1/48, C07K14/	sification (IPC) or 72, G01N33/74	both national classification 4, A61K31/00	and IPC	
Appl IST	icant ITUTO NAZIONA	ALE PER LOS	STUDIO E LA CURA [	DEI	
2.	Box No. I  Box No. II  Box No. III  Box No. IV  Box No. V  Box No. VI  Box No. VIII  Box No. VIII  FURTHER ACTI  If a demand for it written opinion of the applicant cholenternational Bur will not be so cor  If this opinion is, submit to the IPE	Basis of the operation of the International preference an Authoreau under Rule as provided about the Internation of the Interna	ment of opinion with regard invention tement under Rule 43bis itations and explanations ments cited in the international appoint of the internation of the internation is real Preliminary Examining ity other than this one to 66.1bis(b) that written one, considered to be a very together, where appropriation is a light together, where appropriation is the cover of the considered to the analytic together, where appropriation is the cover of the considered to the analytic together, where appropriations is the considered to the cover of t	and to novelty, inventive of the lipitions of the lipitate, witten opinion of the lipitate, witten opinion of the lipitate, witten opinion of the lipitate, with amendments.	ve step and industrial applicability novelty, inventive step or industrial ement  I usually be considered to be a dowever, this does not apply where chosen IPEA has notifed the utional Searching Authority  IPEA, the applicant is invited to ents, before the expiration of three of 22 months from the priority date,
3.	For further option		CT/ISA/220. Form PCT/ISA/220.		
Nam	ne and mailing addres	ss of the ISA:		Authorized Officer	ches Fl
	NL-2280 F Tel. +31 70	Patent Office - P. IV Rijswijk - Pays 0 340 - 2040 Tx: ( 0 340 - 3016	B. 5818 Patentlaan 2 Bas 31 651 epo nl	Gunster, M Telephone No. +31 76	0 340-4412



# JC05 Rec'd PCT/PTO 02 SEP 2005 International application I PCT/EP2004/002185

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

_	Во	x N	o. I Basis of the opinion
1	. Wit	th re	egard to the <b>language</b> , this opinion has been established on the basis of the international application guage in which it was field, unless otherwise indicated under this item.
		la	nis opinion has been established on the basis of a translation from the original language into the fol nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).
2	. Wit	th re	egard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application an sary to the claimed invention, this opinion has been established on the basis of:
	a. t	type	of material:
		$\boxtimes$	a sequence listing
			table(s) related to the sequence listing
)	b. f	form	nat of material:
		$\boxtimes$	in written format
		$\boxtimes$	in computer readable form
	c. t	time	of filing/furnishing:
		$\boxtimes$	contained in the international application as filed.
			filed together with the international application in computer readable form.
		⊠	furnished subsequently to this Authority for the purposes of search.
3	s. 🖾	ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating that been filed or furnished, the required statements that the information in the subsequent or additions is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4	. Ad	lditio	onal comments:

Вох	No.	н	Priority
$\omega \omega \lambda$	.,	•••	

ĹĴ

- In the following document has not been furnished:

  - translation of the earlier application whose priority has been claimed (Rule 43*bis*.1 and 66.7(b)

Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.

- 2. This opinion has been established as if no priority had been claimed due to the fact that the priority cla has been found invalid (Rules 43*bis*.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.
- 3. Additional observations, if necessary:

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application NPCT/EP2004/002185

-		Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability								
-	The obv	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:								
		the entire international application,								
	$\boxtimes$	claims Nos. 18								
``.	bec	ecause:								
		the said international application, or the said claims Nos. relate to the following subject matter whice does not require an international preliminary examination (specify):								
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):								
J		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful could be formed.								
	$\boxtimes$	no international search report has been established for the whole application or for said claims Nos.								
		the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in A C of the Administrative Instructions in that:								
		the written form		has not been furnished						
				does not comply with the standard						
		the computer readable form		has not been furnished						
				does not comply with the standard						
		the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form not comply with the technical requirements provided for in Annex C-bis of the Administrative Instruc								
)		See separate sheet for further details								

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application N PCT/EP2004/002185

	_	Box No. IV Lack of unity of invention								
	1.	☐ In response to the invita	tion (Form P	CT/ISA/206	) to pay additional fees, the applicant	has:				
		☐ paid additional fees.								
		☐ paid additional fo	ees under pro	otest.						
		□ not paid addition	nal fees.							
	2.	.   This Authority found that the requirement of unity of invention is not complied with and chose not the applicant to pay additional fees.								
	3.	3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2								
j		□ complied with								
	☐ complied with for the following reasons:									
	see separate sheet									
	4.	espect of the following parts of the inte	rnational applic							
	••	-								
		☐ all parts.								
	★ In the parts relating to claims Nos. 1-17,19,20									
		Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive sta								
	industrial applicability; citations and explanations supporting such statement									
	1.	Statement								
)		Novelty (N)	Yes: No:	Claims Claims	1-17,19,20					
		Inventive step (IS)	Yes: No:	Claims Claims	1-17,19,20					
		Industrial applicability (IA)	Yes: No:	Claims Claims	1-17,19,20					
	2.	Citations and explanations								
		see separate sheet								

JC05 Rec'd PCT/PTO 2 SEP 2005

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

PCT/EP2004/002185

International application No

### Re Item IV

( )

The present application lacks unity of invention in the sense of Rule 13.1 and 13.2 PCT.

The application as filed is considered to lack unity of invention since its subject-matter relates not to one, but rather to two separate inventions not linked together by a common underlying inventive concept as required by Rule 13.1 and 13.2 PCT.

The claims and the inventions to which the two separate inventions relate may be grouped together as follows:

Invention 1: Claims 1-17, 19, 20

Invention 2: Claim 18

According to Rule 13.2 PCT, an international patent application must relate to one invention only or to a group of inventions so linked as to form a single general inventive concept. Unity of invention is fulfilled only when there is a technical relationship among the inventions involving one or more of the same or corresponding special technical features. Special technical features are such features that define the contribution of the claimed invention over the prior art.

The contributions claimed in the present application which are allegedly made over the prior art are:

- a) the use of a peptide according to SEQ ID N. 1 or 2 as a substrate for ALK,
- b) the use of a compound according to formula (I) to produce a medicament against an ALK-related tumour.

These contributions are not so linked to form a single general inventive concept in the sense of Rule 13.1 and 13.2 PCT. The reasons therefor are the following:

The two identified inventions involve the common concept: "(identifying) modulators of ALK activity", as the sole common link. However, this concept does not define a contribution over the prior art, because it is not new (see for example US-A-5 770 421, column 14, lines 51-58). Thus, the common concept linking the alleged inventions is not new. Therefore, there is no single general inventive concept that links the claimed

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2004/002185

inventions, which results in non-unity of invention in the sense of Rule 13.1 and 13.2 PCT.

### Re Item V

( )

The subject-matter of claims 1-17, 19 and 20 is new because ALK tyrosine kinase assays using Seq ID No 1 and 2 are not known in the prior art (Article 33(2) PCT).

The closest prior art document Turturro et al (2002) describes an assay for determining ALK autophosphorylation activity by incubating ALK with radioactive ATP and detecting labelling of ALK itself.

The additional technical feature of the application over the closest prior art is that a peptide according to SEQ ID N 1 or 2 is used to detect ALK autophosphorylation activity.

The problem that is solved by the application is the provision of a more sensitive assay. The prior art either uses a tyrosine kinase receptor itself (or an active part thereof) for determining autophosphorylation or an artificial poly Glu/Tyr peptide. There is no suggestion that a separate peptide can be used that is derived from the tyrosine kinase receptor itself. Moreover it is not known in the prior art that such peptides have a higher phosphorylation degree than the artificial poly Glu/Tyr peptide Thus it is not obvious to use peptide 1 or 2 to achieve a more sensitive assay for ALK activity. Consequently, the subject-matter of claims 1-17, 19 and 20 involves an inventive step in the sense of Article 33(3) PCT.

The subject-matter of claims 1-17, 19 and 20 is industrially applicable in the field of molecular biology and pharmaceutics (Article 33(4) PCT).